

03040201-08
(Great Pee Dee River)

General Description

Watershed 03040201-08 (formerly a portion of 03040201-050 (below Cedar Creek) and 03040201-090) is located in Marlboro and Darlington Counties and consists primarily of the **Great Pee Dee River** and its tributaries from Cedar Creek to Black Creek. The watershed occupies 214,022 acres of the Upper and Lower Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 36.5% forested wetland, 32.5% agricultural land, 23.3% forested land, 3.9% urban land, 2.2% scrub/shrub land, 1.0% water, 0.5% nonforested wetland, and 0.1% barren land.

This section of the Great Pee Dee River accepts drainage from its upper reaches, along with Buckholtz Creek (Lake Darpo or Spring Lake), Henegan Lake, Lake Creek, Muddy Creek (Machine Branch, Riggins Branch), and Flat Creek. Cottingham Creek (Covington Millpond, Sandy Ocean, Carters Branch) originates near the City of Bennettsville and joins with Hagins Prong to form the headwaters of Three Creeks (Monroe Branch, Drakes Millpond, Big Branch), which flows into the river downstream of Flat Creek. Another Flat Creek enters the system next, followed by Rogers Creek (Mosey Bay), Hurricane Branch, and Back Swamp (Fountain Branch, Alligator Creek, Louthers Lake). There are a total of 418.9 stream miles and 719.1 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
RS-02471	P/RS02	FW	PEE DEE RIVER AT SC 34 11 MI NE OF DARLINGTON
PD-028	P/INT	FW	PEE DEE RIVER AT SC 34 11 MI NE OF DARLINGTON
PD-336	S/W	FW	HAGINS PRONG AT SCR 381
PD-341	W	FW	THREE CREEKS AT SC 381 AT BLENHEIM
PD-367	INT	FW	THREE CREEKS AT SC 38, S OF BLENHEIM

Great Pee Dee River - There are two SCDHEC monitoring sites along this section of the Great Pee Dee River. At the upstream site (**RS-02471**), aquatic life and recreational uses are fully supported. At the downstream site (**PD-028**), aquatic life and recreational uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen concentration. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. A very high concentration of cadmium was measured in the 2000 sediment sample, and a high concentration of chromium and a very high concentration of lead were measured in the 2003 sample.

Hagins Prong (PD-336) – Aquatic life and recreational uses are fully supported. This is a blackwater system, characterized by naturally low pH and dissolved oxygen conditions. Although dissolved oxygen and pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Significant increasing trends in dissolved oxygen concentration and decreasing trends in five-day biological oxygen

demand, turbidity, and fecal coliform bacteria concentration suggest improving conditions for these parameters.

Three Creeks – There are two SCDHEC monitoring sites along Three Creeks. This is a blackwater system, characterized by naturally low pH and dissolved oxygen conditions. At the upstream site (**PD-341**), aquatic life uses are not supported due to pH excursions. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biological oxygen demand and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are fully supported at this site. At the downstream site (**PD-367**), aquatic life and recreational uses are fully supported. Although dissolved oxygen and pH excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations.

*A fish consumption advisory has been issued by the Department for mercury and includes the **Great Pee Dee River** and **Louthers Lake** within this watershed (see advisory p.130).*

Natural Swimming Areas

FACILITY NAME RECEIVING STREAM	PERMIT # STATUS
LAKE DARPO	16-N05
LAKE DARPO	ACTIVE

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-043	GB	MIDDENDORF	CLIO

NPDES Program

Active NPDES Facilities

RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD)	NPDES# TYPE COMMENT
GREAT PEE DEE RIVER MOHAWK IND./OAK RIVER PLANT PIPE #: 001 FLOW: 0.214 PIPE #: 002 FLOW: 0.210 PIPE #: 003 FLOW: 0.531	SC0001996 MINOR INDUSTRIAL
CARTERS BRANCH WALKER CONSTR./WALKER BORROW PIT PIPE #: 001 FLOW: M/R	SCG730234 MINOR INDUSTRIAL
BUCKHOLTZ CREEK TRIBUTARY DARLINGTON COUNTY/RUSSELL 2 MINE PIPE #: 001 FLOW: M/R	SCG730515 MINOR INDUSTRIAL
ROGERS CREEK TRIBUTARY HANSON AGGREGATES SE/BROWNSVILLE PIPE #: 001 FLOW: M/R	SCG730468 MINOR INDUSTRIAL

RIGGINS BRANCH
HANSON AGGREGATES SE/BLENHEIM
PIPE #: 001 FLOW: M/R

SCG730039
MINOR INDUSTRIAL

GREAT PEE DEE RIVER TRIBUTARY
US CONSTRUCTORS/HANSON PIT
PIPE #: 001 FLOW: M/R

SCG730435
MINOR INDUSTRIAL

HAGINS PRONG
TOWN OF CLIO WWTF
PIPE #: 01A FLOW: 0.3

SC0040606
MINOR DOMESTIC

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME
FACILITY TYPE

PERMIT #
STATUS

CITY OF BENNETTSVILLE TRANSFER STA.
MUNICIPAL

351002-6001
ACTIVE

MARLBORO COUNTY
INDUSTRIAL

351001-1601
INACTIVE

MARLBORO COUNTY COMPOSTING FACILITY
COMPOSTING

351001-3001
ACTIVE

MARLBORO COUNTY MUNICIPAL SW LF
COMPOSTING

351001-1101
INACTIVE

Mining Activities

MINING COMPANY
MINE NAME

PERMIT #
MINERAL

BAKER BROTHERS OF GRESHAM INC.
GRESHAM

0959-31
SAND; SAND/CLAY

DARLINGTON COUNTY
RUSSELL MINE #2

0967-31
SAND/CLAY

DALTON WALKER
WALKER BORROW PIT

1195-69
SAND

HANSON AGGREGATES SE, INC.
BROWNSVILLE PLANT

0090-69
SAND/GRAVEL

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the Town of Cheraw, Clio, Tautm, and Blenheim, a portion of the City of Bennettsville and a portion of the Town of Society Hill, and is projected to have one of the largest population growth rates in the region. There are numerous industries in the watershed, most in and around the municipal limits of Cheraw. Commercial development is also centered around Cheraw, particularly west of town along S.C. Hwy. 9, and additional growth is expected. A large portion of the watershed is not served by public water or sewer systems, primarily due to the large expanse of the floodplain associated with the Great Pee Dee River. These services are provided in and immediately around

the Town of Cheraw, along S.C. Hwy. 34 east of the City of Darlington, around Clio, and the areas near Bennettsville. The Town of Cheraw is planning a wastewater treatment plant upgrade that should encourage further growth. U.S. Hwys. 15/401 form a bypass around the City of Bennettsville, and this bypass area is expected to see increased commercial growth. The proposed Preferred Alternative route of I-73 (Northern Corridor) would cross this watershed and could bring some growth to the area, especially around interchanges.